Amendments to the Claims

1   Claim 7 (currently amended): In a computing environment ~~having a connection to a network~~,

2   computer readable code readable by a computer system in said environment, for enhancing

3   performance of [[a]] an ~~multithreaded~~ application that services client connections using a plurality

4   of worker threads, comprising:

5   a subprocess for moving client connections from a pending connections queue to a first

6   queue when each of said client connections [[are]] is accepted by said application and confirmed

7   by a client that requested said client connection;

8   a subprocess for moving each of said client connections from said first queue to a second

9   queue when an initial data packet arrives for said client connection; and

10   a subprocess for assigning [[a]] ones of said plurality of worker threads ~~thread~~ to ~~each of~~

11   said client connections on said second queue.

1   Claim 8 (currently amended): In a computing environment ~~having a connection to a network~~,

2   computer readable code readable by a computer system in said environment, for enhancing

3   performance of [[a]] an ~~multithreaded~~ application that services client connections using a plurality

4   of worker threads, comprising:

5   a subprocess for receiving ~~input~~ client connections on [[from]] multiple ~~sources~~ pending

6   connections queues;

7   a subprocess for moving said client connections from said multiple pending connections

8   queues to first queues associated therewith as each of said client connections is accepted by said

9   application and confirmed by a client that requested said client connection;

Serial No. 09/852,366   -6-   Docket CR9-98-027B

10   a subprocess for moving each of said client connections from said first queues to a single

11 queue when an initial data packet arrives for said client connection; and

12   a subprocess for assigning ones of said plurality of worker threads to merging said client

13 connections on said received input onto a single queue for scheduling.

Claim 9 (canceled)

1   Claim 10 (currently amended): Computer readable code for enhancing performance of a

2   multithreaded application according to Claim [[9]] 8, wherein said subprocess for scheduling

3   assigning further comprises:

4   a subprocess for assigning said ones from a group of active worker threads comprised of

5   changeable ones of [[a]] said plurality of worker threads, and having a changeable number of said

6   changeable ones, said changeable number being at least one, by using one; and

7   a subprocess for implementing a scheduling heuristic that balances for balancing said

8   changeable number in said active group against a current workload comprised of said client

9   connections requests stored on said single queue.

1   Claim 21 (currently amended): A system for enhancing performance of [[a]] an multithreaded

2   application that services client connections using a plurality of worker threads in a computing

3   environment having a connection to a network, comprising:

4   means for moving client connections from a pending connections queue to a first queue

5   when each of said client connections [[are]] is accepted by said application and confirmed by a

Serial No. 09/852,366   -7-   Docket CR9-98-027B

6   client that requested said client connection;

7   means for moving each of said client connections from said first queue to a second queue

8   when an initial data packet arrives for said client connection; and

9   means for assigning [[a]] ones of said plurality of worker threads thread to each of said

10   client connections on said second queue.

1   Claim 22 (currently amended): A system for enhancing performance of [[a]] an multithreaded

2   application that services client connections using a plurality of worker threads in a computing

3   environment having a connection to a network, comprising:

4   means for receiving input client connections on [[from]] multiple sources pending

5   connections queues;

6   means for moving said client connections from said multiple pending connections queues

7   to first queues associated therewith as each of said client connections is accepted by said

8   application and confirmed by a client that requested said client connection;

9   means for moving each of said client connections from said first queues to a single queue

10   when an initial data packet arrives for said client connection; and

11   means for assigning ones of said plurality of worker threads to merging said client

12   connections on said received input onto a single queue for scheduling.

Claim 23 (canceled)

Serial No. 09/852,366   -8-   Docket CR9-98-027B

1   Claim 24 (currently amended): The system for enhancing performance of a multithreaded

2   application according to Claim [[23]] 22, wherein said means for ~~scheduling~~ assigning further

3   comprises:

4   means for assigning said ones from a group of active worker threads comprised of

5   changeable ones of [[a]] said plurality of worker threads, and having a changeable number of said

6   changeable ones, said changeable number being at least one, by using ~~one; and~~

7   ~~means for implementing~~ a scheduling heuristic that balances ~~for balancing~~ said changeable

8   number in said active group against a current workload comprised of said client connections

9   ~~requests stored~~ on said single queue.

1   Claim 35 (currently amended): A method for enhancing performance of [[a]] an ~~multithreaded~~

2   application that services client connections using a plurality of worker threads in a computing

3   environment ~~having a connection to a network~~, comprising the steps of:

4   moving client connections from a pending connections queue to a first queue when each of

5   said client connections [[are]] is accepted by said application and confirmed by a client that

6   requested said client connection;

7   moving each of said client connections from said first queue to a second queue when an

8   initial data packet arrives for said client connection; and

9   assigning [[a]] ones of said plurality of worker threads ~~thread~~ to ~~each of~~ said client

10   connections on said second queue.

1   Claim 36 (currently amended): A method for enhancing performance of [[a]] an ~~multithreaded~~

2   application that services client connections using a plurality of worker threads in a computing

3   environment having a connection to a network, comprising the steps of:

4   receiving input client connections on [[from]] multiple sources pending connections

5   queues;

6   moving said client connections from said multiple pending connections queues to first

7   queues associated therewith as each of said client connections is accepted by said application and

8   confirmed by a client that requested said client connection;

9   moving each of said client connections from said first queues to a single queue when an

10   initial data packet arrives for said client connection; and

11   assigning ones of said plurality of worker threads to merging said client connections on

12   said received input onto a single queue for scheduling.

Claim 37 (canceled)

1   Claim 38 (currently amended): The method for enhancing performance of a multithreaded

2   application according to Claim [[37]] 36, wherein said assigning step further comprising

3   comprises the step of:

4   assigning said ones from a group of active worker threads comprised of changeable ones

5   of [[a]] said plurality of worker threads, and having a changeable number of said changeable ones,

6   said changeable number being at least one, by using one; and

7   wherein said scheduling step further comprises:

8   implementing a scheduling heuristic that balances for balancing said changeable number in

Serial No. 09/852,366   -10-   Docket CR9-98-027B

9   said active group against a current workload comprised of said client <u>connections</u> ~~requests stored~~

10   on said single queue.